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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,718		01/05/2004	Siu Wing Or	MCHK/149/US	2247	
2543	7590	12/30/2005		EXAMINER		
ALIX YA		TAS LLP	BUDD, MARK OSBORNE			
750 MAIN SUITE 140			ART UNIT	PAPER NUMBER		
HARTFOR		6103	2834			
				DATE MAILED: 12/30/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	Application No.		Applicant(s)				
		10/751,718		OR ET AL.					
	Office Action Summary	Examiner		Art Unit					
		Mark Budd		2834					
Period fo	The MAILING DATE of this communication Reply	on appears on the c	over sheet with the c	correspondence a	ddress				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR FOR EXECUTION OF THE MAILING IN THE MAILING IN THE MAILING IN THE MAILING IN THE MONTHS FROM THE MAILING IN THE MONTHS FROM THE MAILING IN THE MONTHS FROM THE MAILING IN THE MONTH IN T	NG DATE OF THIS CFR 1.136(a). In no event, tion. period will apply and will ex y statute, cause the applica	COMMUNICATION however, may a reply be tin xpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this ED (35 U.S.C. § 133).	· •				
Status									
1)⊠	Responsive to communication(s) filed on	21 November 200	5						
	_	This action is non							
3)									
٠,٠_	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims	•	,						
·									
	Claim(s) <u>1-18</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
	· / <del>- · · · · ·</del>								
7)	Claim(s) <u>1-18</u> is/are rejected.  Claim(s) is/are objected to.								
·—	Claim(s) are subject to restriction	and/or election requ	uirement						
		and/or election requ	an ement.						
Applicat	on Papers								
	The specification is objected to by the Exa								
10)	The drawing(s) filed on is/are: a)	accepted or b)	objected to by the F	Examiner.					
	Applicant may not request that any objection	to the drawing(s) be h	neld in abeyance. See	e 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the c								
11)	The oath or declaration is objected to by t	he Examiner. Note	the attached Office	Action or form P	TO-152.				
Priority ι	ınder 35 U.S.C. § 119								
	Acknowledgment is made of a claim for fo ☑ All  b)☑ Some * c)፴ None of:	preign priority under	· 35 U.S.C. § 119(a)	)-(d) or (f).					
	1. Certified copies of the priority docu	ıments have been r	eceived.						
	2. Certified copies of the priority docu	ments have been r	eceived in Application	on No					
	3. Copies of the certified copies of the	e priority documents	s have been receive	ed in this Nationa	l Stage				
	application from the International B	Bureau (PCT Rule 1	7.2(a)).						
* 5	see the attached detailed Office action for	a list of the certified	d copies not receive	d.					
Attachmen	t(s)								
	e of References Cited (PTO-892)	4)	☐ Interview Summary	(PTO-413)					
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-94	18)	Paper No(s)/Mail Da	ite					
3)   Inforr Pape	nation Disclosure Statement(s) (PTO-1449 or PTO/S · No(s)/Mail Date	SB/08) 5) 6)	Notice of Informal Pa	atent Application (PT	O-152)				

Application/Control Number: 10/751,718

Art Unit: 2834

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wright in view of Hansen. Wright in figure 2 teaches a wire bonding apparatus having a wire bonding tool #23 at the arrow and a bail for which has eight mounting flange at the other end #15 the device uses a generic ultrasonic transducer which may include a magnetostrictive driver. Hansen teaches a high power ultrasonic transducer have a higher efficiency by using a prestressed element, a first field generator for a bias field a second field generator for providing a magnetic drive field. The magnetostrictive element can be made from Terfenol-D. It would have been obvious to what ordinary skill in the art to utilize the specific magnetostrictive transducer structure talked by Hansen in the wire bonding apparatus taught by Wright because of the increased efficiency and output power achieved with the Hansen structure. Regarding claims 5 and 14, as pointed out in the previous office action, selection from among known suitable is within the skill expected of the routineer.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

Any inquiry concerning this communication should be directed to Mark Budd at telephone number 571-272-2019.

than SIX MONTHS from the mailing date of this final action.

Mark Budd
Primary Examiner
Art Unit 2834